

FIG. 1

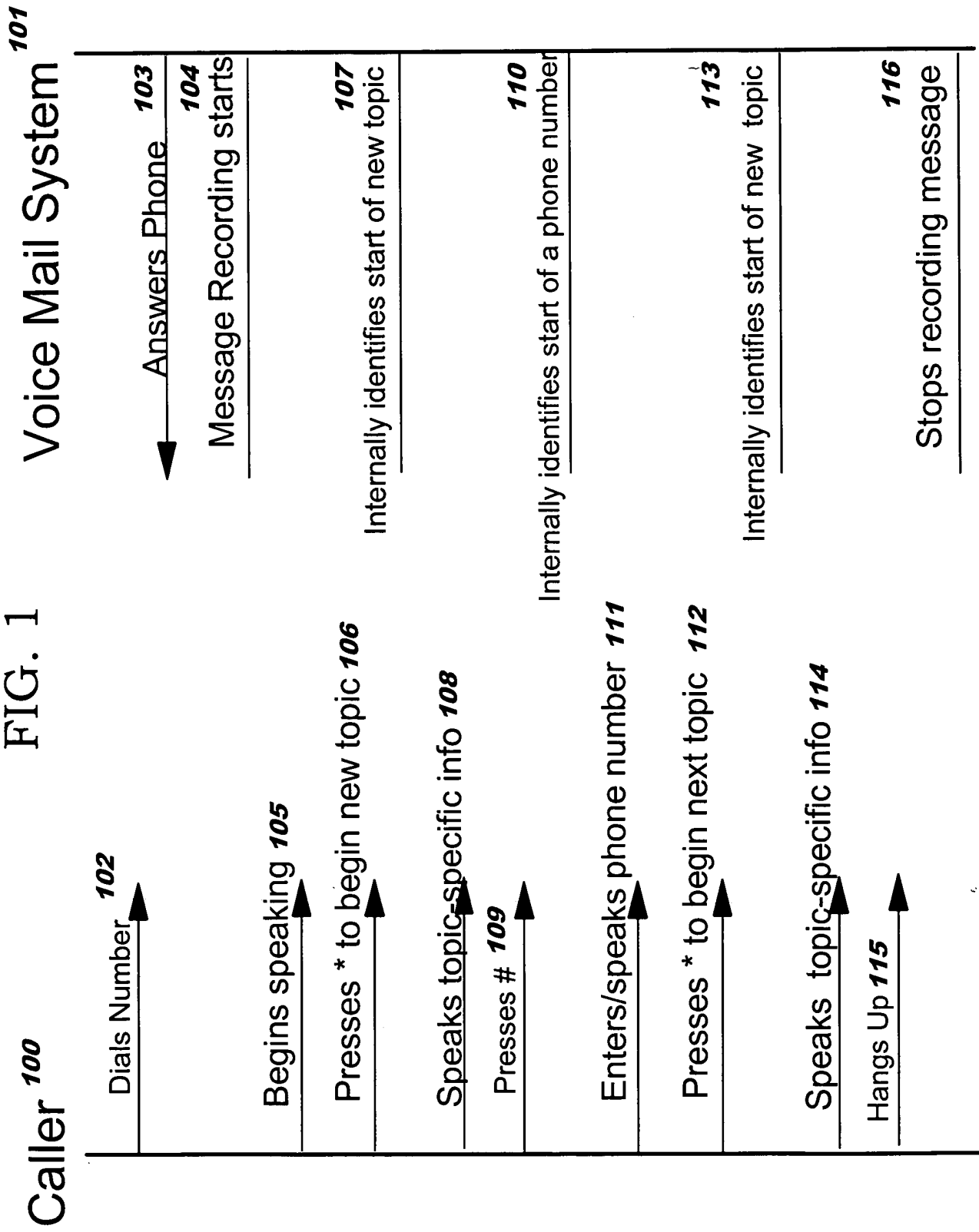


FIG. 2A

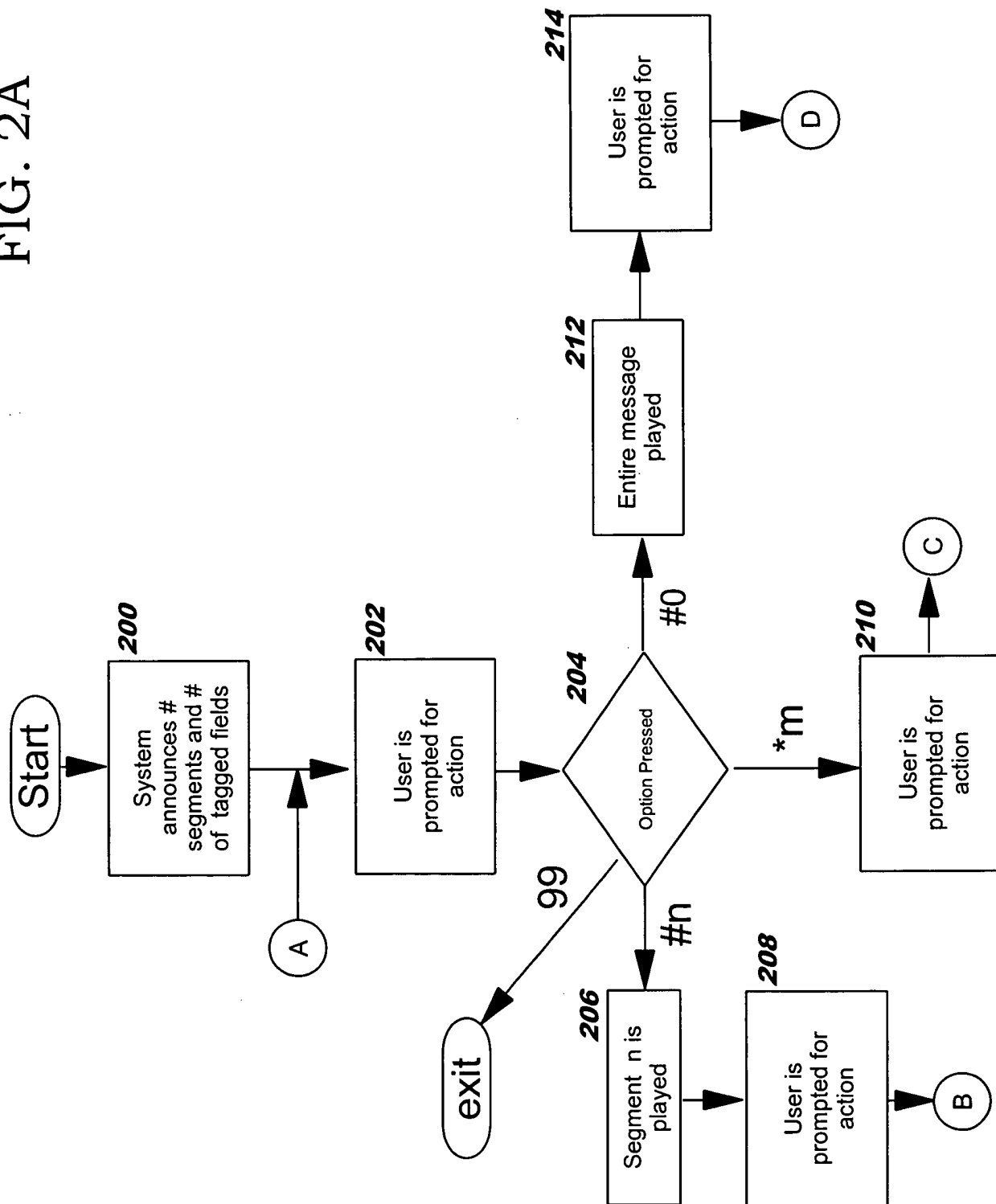


FIG. 2B

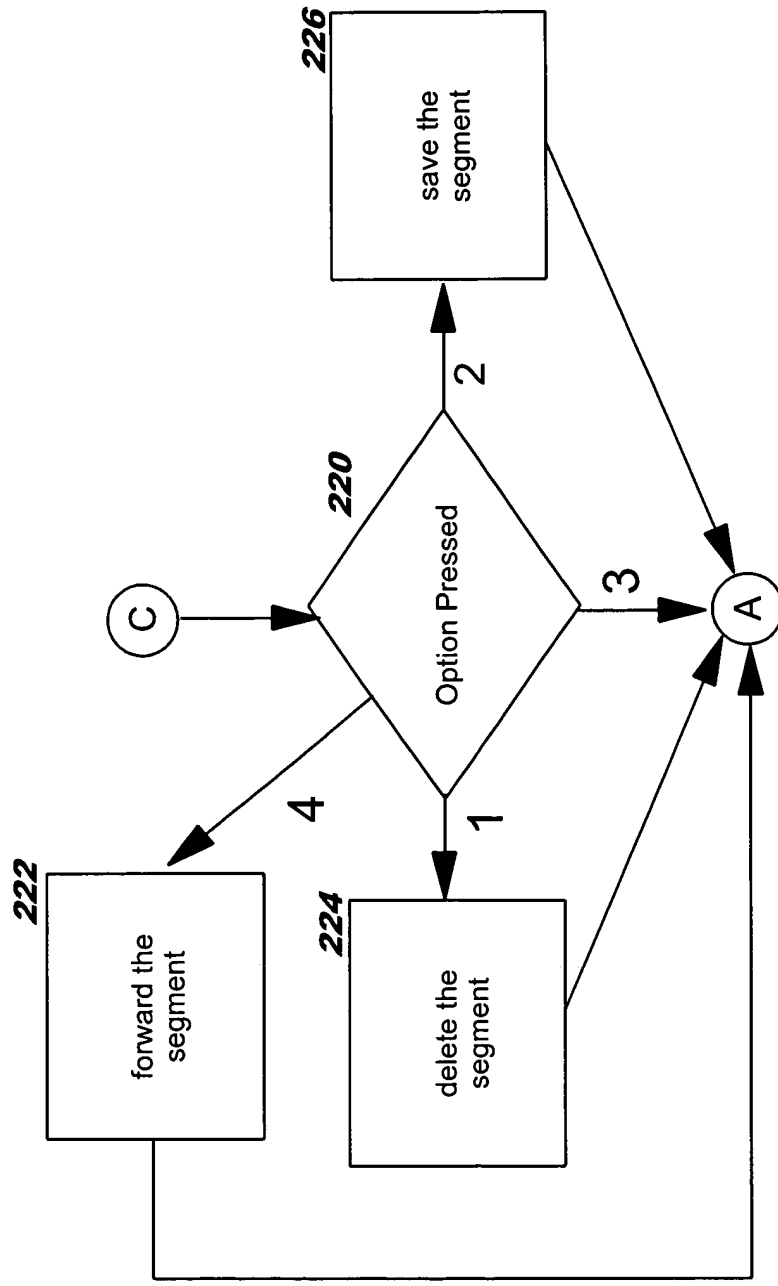


FIG. 2C

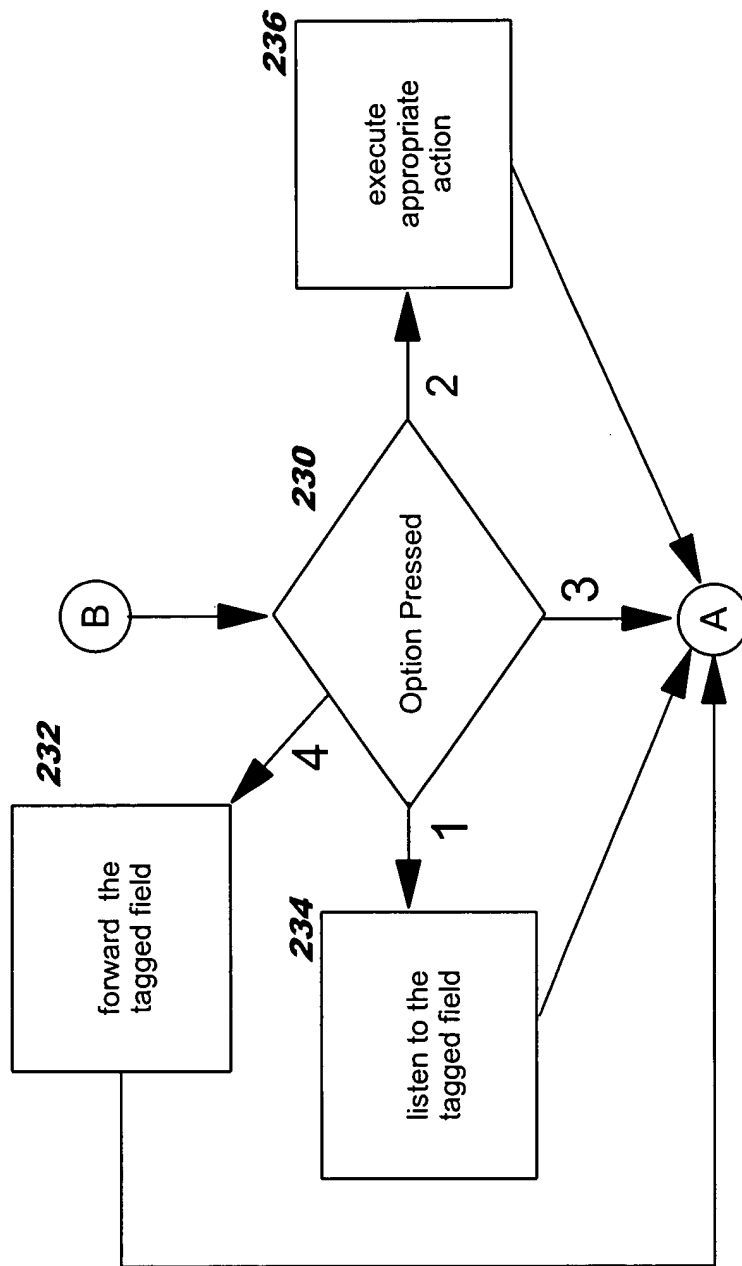


FIG. 2D

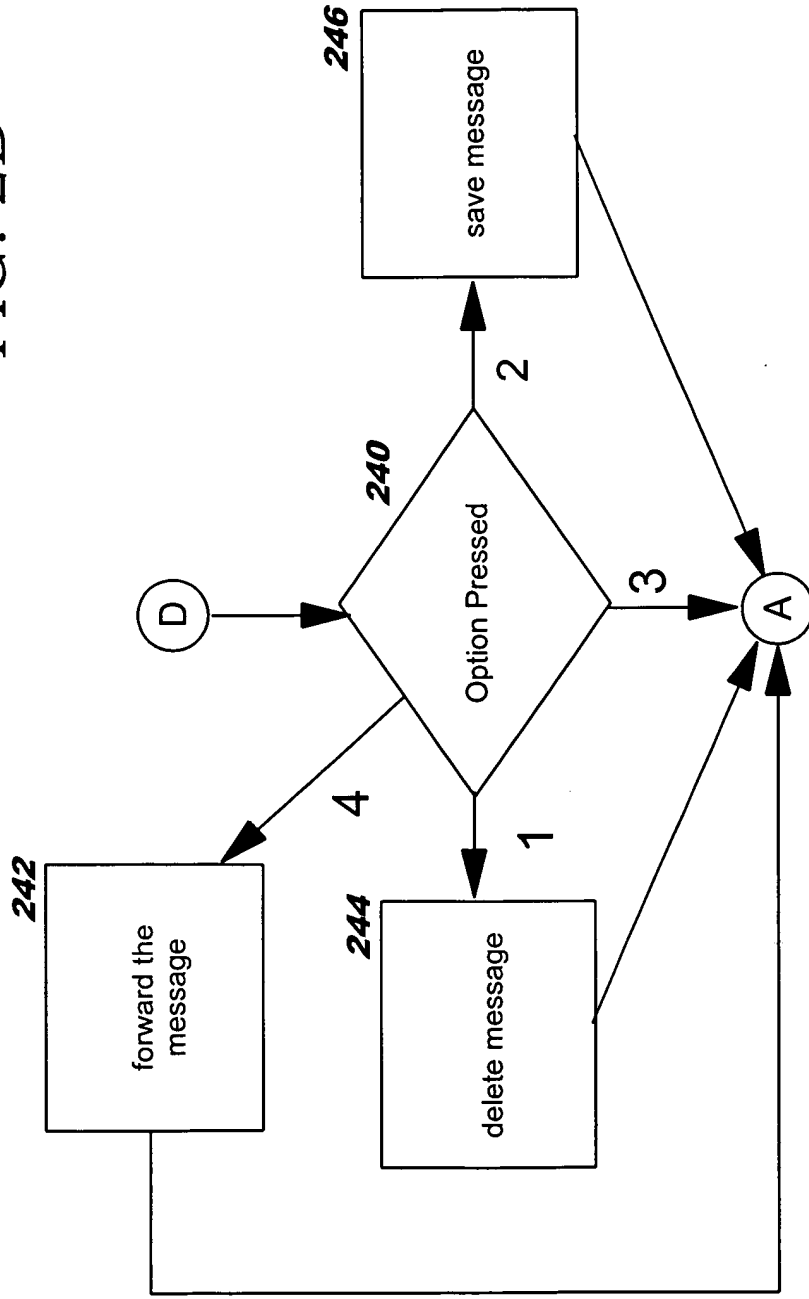


FIG. 3A

To listen to the entire message, press #0.  
 To listen to segment n, press #n.  
 To access options for tagged field m, press \*m.  
 To exit, press 99.

FIG. 3B

To delete this segment, press 1.  
 To save this segment, press 2.  
 To continue, press 3.  
 To forward this segment, press 4.

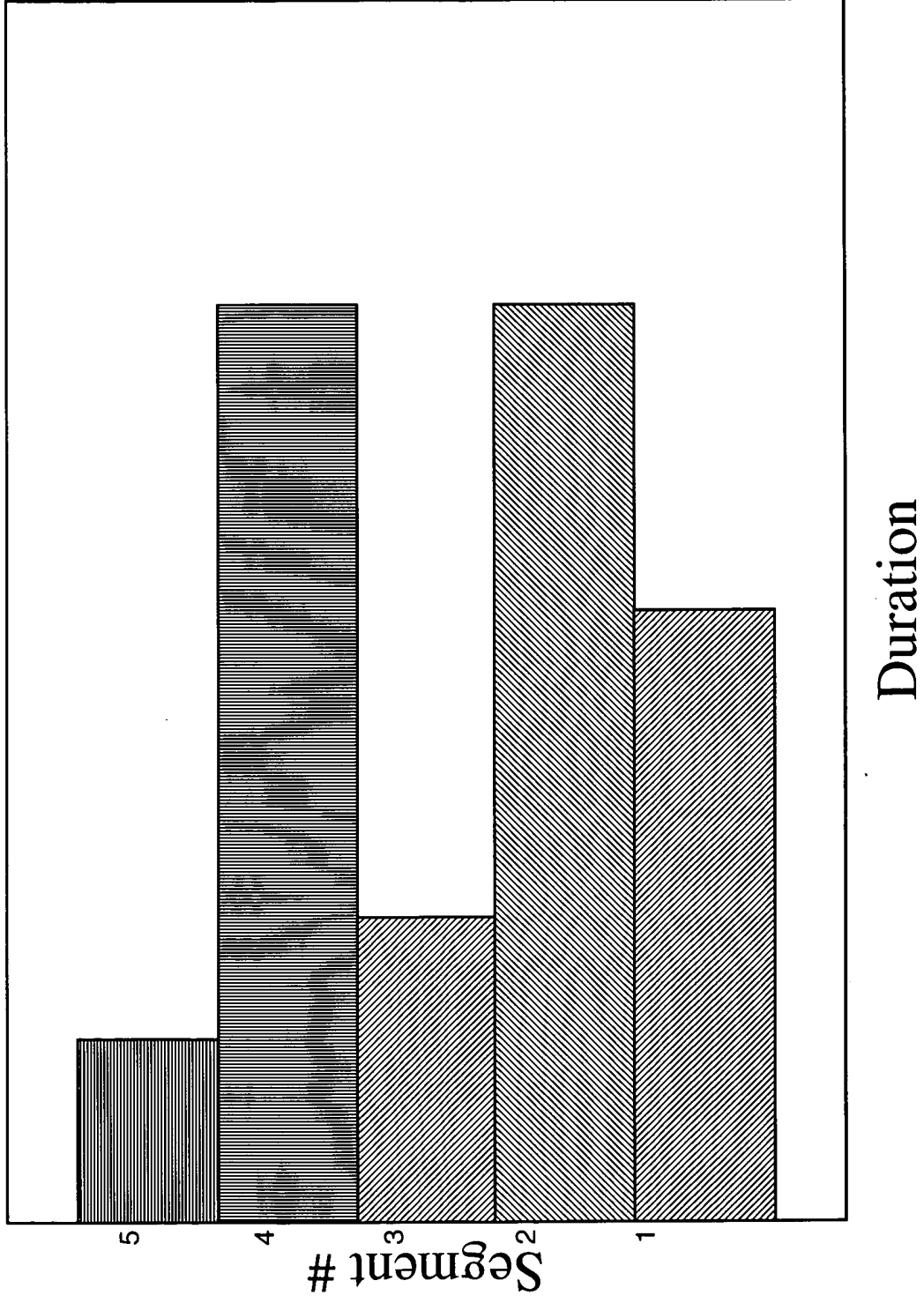
FIG. 3C

To delete this message, press 1.  
 To save this message, press 2.  
 To continue, press 3.  
 To forward this message, press 4.

FIG. 3D

To listen to a tagged field, press 1.  
 To execute an action, press 2.  
 To continue, press 3.  
 To forward this tagged field, press 4.

FIG. 4



## FIG. 5A

**500**

```
#define MAX_VMAIL_SEGMENTS 1000 /* arbitrary value */ 501
#define MAX_TAGGED_ENTRIES 50 /* arbitrary value */
```

Struct tagged\_field **502**

```
{
    Int tagged_field_type; /* phone number, email addr, url, etc. */
    FILE *tagged_field_loc; /* location of data for this tagged field */
    /* this could alternately be stored in this structure. */
}
```

Struct vmail\_segment **503**

```
{
    FILE *data_loc; /* location of data for this part of the voice mail */
    /* this could alternately be stored in this structure. */
}
```

Struct tagged\_field tagged\_field\_array[MAX\_TAGGED\_ENTRIES];

```
}
```

Struct vmail\_segment vmail\_array[MAX\_VMAIL\_SEGMENTS]; **504**



## FIG. 5B

**510**

```
#define MAX_VMAIL_SEGMENTS 1000 /* arbitrary value */
#define MAX_TAGGED_ENTRIES 50 /* arbitrary value */
```

**511**

Struct tagged\_field **512**

```
{
    Int tagged_field_type; /* phone number, email addr, url, etc. */
    Int tagged_field_offset; /* offset of the tagged field in data_loc */
    Int tagged_field_length; /* need to know where the end of the field is */
}
```

Struct vmail\_segment **513**

```
{
    FILE *data_loc; /* location of data for this segment of the voice mail */
    /* this could alternately be stored in this structure. */

    Struct tagged_field tagged_field_array[MAX_TAGGED_ENTRIES];
}
```

Struct vmail\_segment vmail\_array[MAX\_VMAIL\_SEGMENTS],**514**

## FIG. 5C

520 FILE \*vmail\_msg; **521**

## FIG. 5D

**530**  
#define MAX\_VMAIL\_ELEMENTS 1000 /\* arbitrary value \*/ **531**  
FILE \*vmail\_array[MAX\_VMAIL\_ELEMENTS]; **532**

**540**

```
#define MAX_VMAIL_SEGMENTS 1000 /* arbitrary value */
#define MAX_TAGGED_ENTRIES 50 /* arbitrary value */
```

FIG. 5E

Struct tagged\_field **542**

```
{
    Int tagged_field_type; /* phone number, email addr, url, etc. */
    FILE *tagged_field_loc; /* location of data for the tagged_field */
    /* this could alternately be stored in this structure. */
}
```

Struct vmail\_segment **543**

```
{
    FILE *data_loc; /* location of data for this part of the voice mail */
    /* this could alternately be stored in this structure. */
}
```

Struct tagged\_field tagged\_field\_array[MAX\_TAGGED\_ENTRIES];

Struct vmail\_msg\_struct **544**

```
{
    FILE *caller_name;
    FILE *caller_phone_number;
    Struct vmail_segment vmail_segment_array[MAX_VMAIL_SEGMENTS];
} vmail_msg;
```

## FIG. 5F

```
550 #define MAX_VMAIL_SEGMENTS 1000 /* arbitrary value */ 551  
  
Struct vmail_msg_struct 552  
{  
    FILE *caller_name;  
    FILE *caller_phone_number;  
    FILE *desired_callback_time;  
    FILE *vmail_segment_array[MAX_VMAIL_SEGMENTS];  
} vmail_msg;
```

## FIG. 5G

```
560 #define MAX_VMAIL_ELEMENTS 1000 /* arbitrary value */ 561

Struct vmail_segment 562
{
    INT importance_level; /* importance level associated w/each segment - default */
    FILE *data_loc; /* may be set to 5 (average). */
    /* location of data for this element of the voice mail */
    /* this could alternately be stored in this structure. */
}

Struct vmail_segment *vmail_array[MAX_VMAIL_ELEMENTS]; 563
```